STEREO CONTROL AMPLIFIER

KC-105

INSTRUCTION MANUAL

KENWOOD

TRIO-KENWOOD CORPORATION

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87/6 5 4 3 2 1 86/12 11 10 9 8 7 6 5 4 3

Rear panel safety precautions

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated ''dangerous voltage'' within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

1H30

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your Kenwood dealer for information or service on this product.

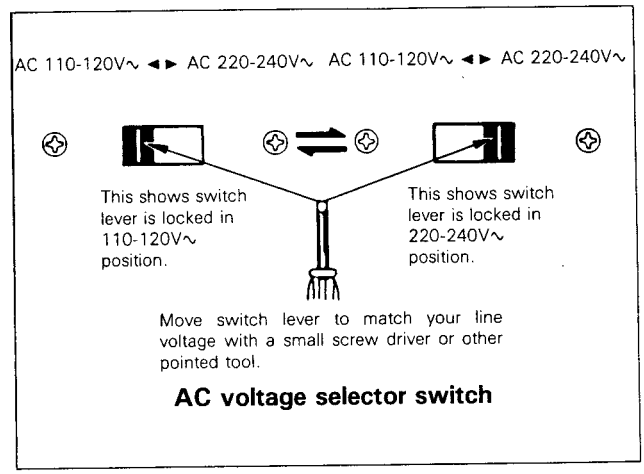
Model KC-105 Serial number_____

Unpacking

Unpack the unit carefully and make sure that all accessories and cables are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.


AC 110-120V~ ◄► AC 220-240V~ AC 110-120V~ ◄► AC 220-240V~
This shows switch lever is locked in 110-120V~ position.
This shows switch lever is locked in 220-240V~ position.
Move switch lever to match your line voltage with a small screw driver or other pointed tool.

AC voltage selector switch

Before applying power

Important!

U.S.A., Canada and Australia

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only. Units shipped to Australia are designed for operation on 240 volts AC only. These units are not equipped with an AC voltage selector switch and the discussion of such a switch that follows should be disregarded.

All other countries

Units shipped to countries other than the U.S.A., Canada, Australia and U.K. are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this switch.

AC voltage selection

This unit operates on 110~120 volts or 220~240 volts AC. The AC Voltage Selector switch on the bottom plate is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

Note:

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC Voltage Selector switch.

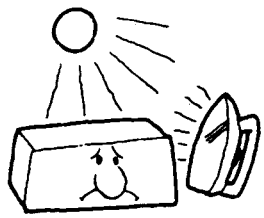
WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

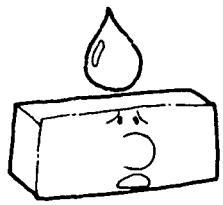
Before operation

Notes on installation

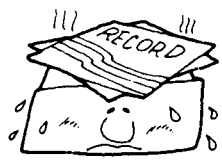
Do not place the unit in a place which is exposed to direct sunlight, near a heating appliance, etc.



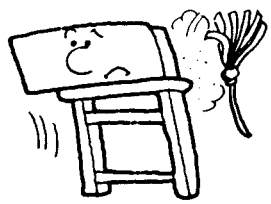
Do not place a vase containing water, makeup, etc. on the unit. Do not use in a humid place.



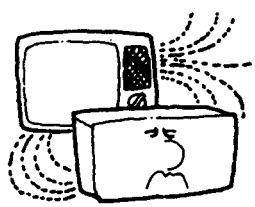
To maintain good ventilation, do not put records or a table-cloth on the unit. Place the unit at least 10 cm away from the walls.



Choose a location that is relatively free from vibration or excessive dust.

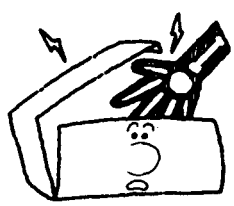


Keep the unit away from a source of magnetic fields such as TV sets, motorized toys, etc.



Safety precautions

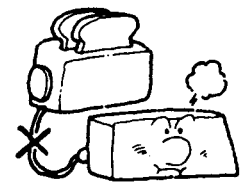
Never remove the case. If the internal parts are touched, accidentally, a serious electric shock might occur.



Never touch internal parts.

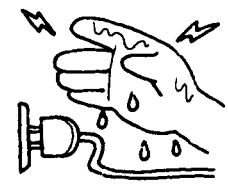
If a metal object, such as a hair pin or a needle, comes into contact with the power socket on the rear panel, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this unit.

Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster.



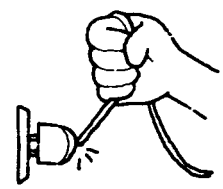
Never connect other electrical appliances.

Touching the power plug when your hands are wet may result in a serious electric shock.



Never touch with wet hands.

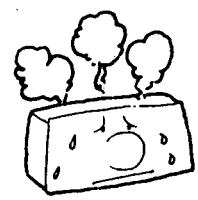
Never pull, bend or extend the power cord. This could damage the power cord, resulting in a broken cord or short-circuit.



Always grasp the plug.

In case of abnormal smell

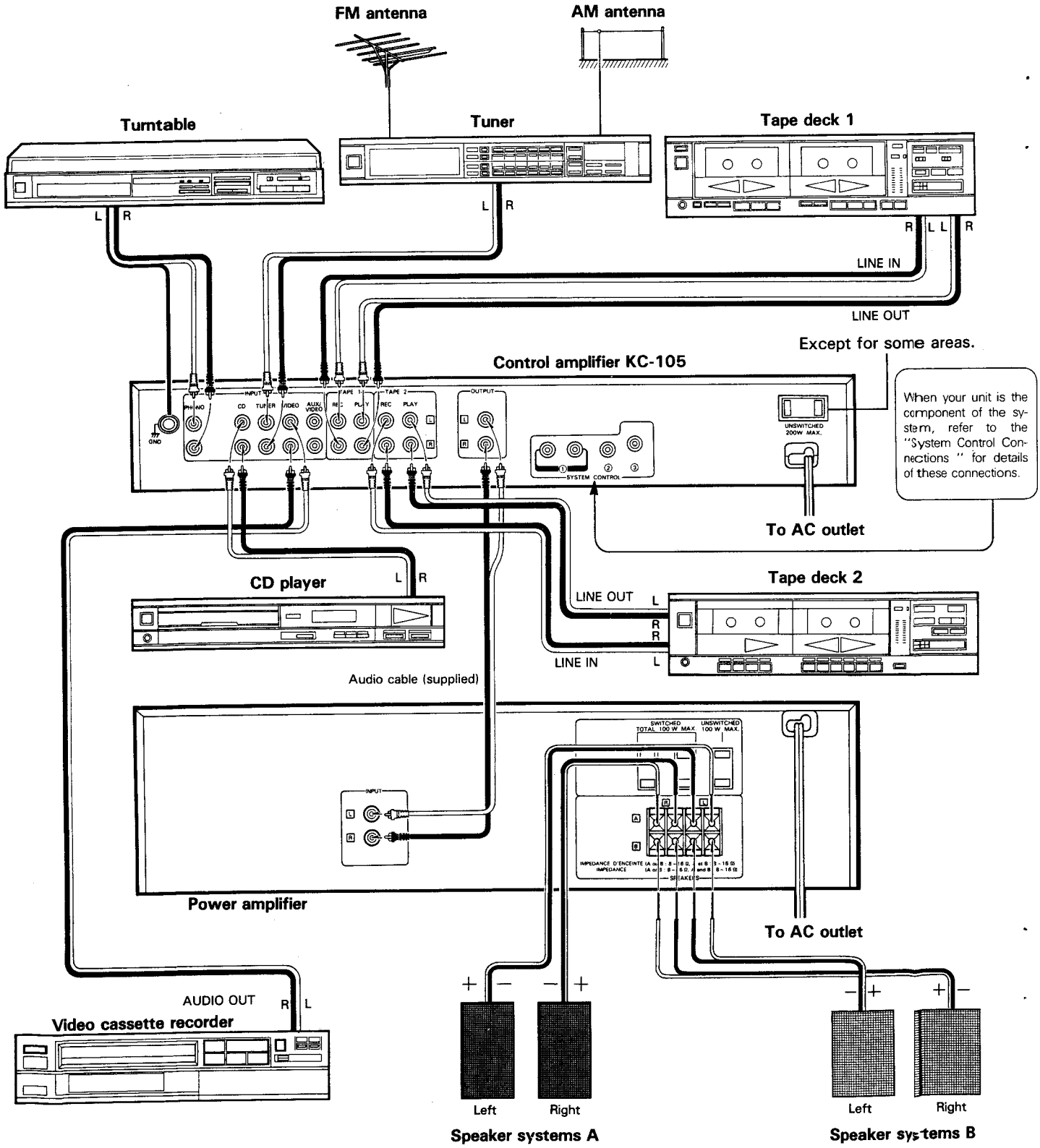
If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest Kenwood service station.



Cleaning

Do not use volatile solvents such as alcohol, paint thinner, gasoline, benzine, etc. to clean the cabinet. Use a silicone cloth or a clean dry cloth.

System connections



Power amplifier

Connect the OUTPUT jacks of the KC-105 and the INPUT jacks of a power amplifier with the supplied audio cable.

Notes:

1) The AC cord of the power amplifier should be plugged into a wall outlet.
2) To prevent possible trouble, always disconnect the power plug or turn off the POWER switch of the power amplifier before connecting or disconnecting the audio cables.
3) When connecting audio cables, always insert the pin plugs exactly into the connecting jacks.
   Insufficient insertion may result in no-sound trouble or generation of noise.

Turntable

The PHONO jacks of the amplifier can accept a turntable with an MM type phono-cartridge.
Your stereo turntable has RCA pin-plug cords that is terminated with phono plugs. Plug the left channel plug into the [L] and the right channel plug into the [R] PHONO jacks.
If the turntable has a ground wire, connect it to the unit's GND terminal to avoid hum.

Ground

For maximum safety and minimum interference connect the GND terminal to a good earth ground if practicable. A good earth ground is a cold water pipe or a metal stake driven into moist earth. However, never use a gas pipe for this purpose.

CD player

The CD jacks are used to connect a CD player.
Connect the left channel of the CD player to the [L] CD input jack and right channel of the CD player to the [R] CD input jack.

Note:

Do not connect the CD player to the PHONO jacks.

Tuner

Use the TUNER jacks for connection to an FM stereo or AM-FM stereo tuner.
Connect the left channel of the tuner to the [L] TUNER input jack and the right channel of the tuner to the [R] TUNER input jack.

Video cassette recorder

Use the VIDEO jacks for connection to audio output of a video cassette recorder.
Connect the left channel of the recorder to the [L] VIDEO input jack and the right channel of the recorder to the [R] VIDEO input jack.

Other audio equipments

The AUX/VIDEO jacks are used to connect other high level signal sources, such as a audio output of a video disc player, etc.

Tape decks

If only one tape deck is to be connected to the system it is recommended that it be connected to the jacks marked TAPE 1.
Tape deck input and output cables are normally terminated with phono plugs.

Playback

Plug the left and right output cables of the tape deck into the [L] and [R] TAPE 1 PLAY jacks.

Record

Plug the left and right input cables of the tape deck into the [L] and [R] TAPE 1 REC jacks.

Second tape deck

Plug the input and output cables from the second tape deck into the REC and PLAY jacks marked TAPE 2.

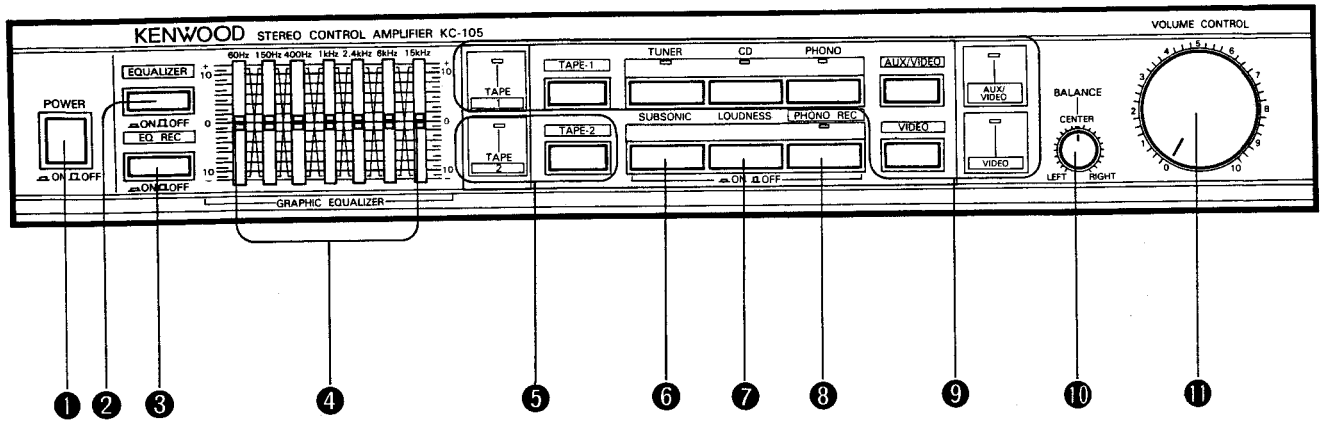
UNSWITCHED AC OUTLET (Except for some areas.)

This outlet provides power when the unit is plugged into an active AC wall outlet, regardless of the setting of the POWER switch. The maximum capacity is 200 W.

Safety precaution for AC plug (For U.S.A. and Canada)

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

Controls and indicators



❶ POWER switch

Press the POWER switch to turn on the power. To turn the power off, press the switch again to set it to the out position.

❷ EQUALIZER switch

Set this switch to ON to activate the graphic equalizer circuitry. When this switch is set to OFF, a flat frequency response is obtained regardless of the GRAPHIC EQUALIZER control setting.

❸ EQ REC switch

Set this switch to ON to record an equalized sound onto the tape deck connected to TAPE 1 REC jacks. When this switch is set to OFF, the sound with a flat frequency response is recorded onto the tape deck connected to TAPE 1 REC jacks.

❹ GRAPHIC EQUALIZER controls

When the EQUALIZER or EQ REC switch is set to ON, use these controls to adjust the sound quality as your preference.

❺ TAPE-2 selector switch and indicator

To listen to a source of the tape deck, etc., connected to the TAPE 2 jacks, press this switch. The TAPE 2 indicator lights.

Note:
The TAPE-2 selector switch has a priority over the input selector switches. To listen to the source other than tape deck 2, be sure to set this switch to OFF.

❻ SUBSONIC filter switch

The subsonic filter is used to remove super-low-frequency noise due to warp in the record disc. If this switch is ON, a low frequency range is cut off. This switch may be set to ON at all times since low frequency noise deviating from the acoustic range and affecting the speakers adversely can be cut off effectively.

❼ LOUDNESS switch

The loudness switch boosts bass response to compensate for the human ear's lack of response to those frequencies at low volume levels. Press this switch according to your listening level.

❽ PHONO REC switch

When this switch is set to ON, the sound from the turntable connected to PHONO jacks is supplied to the TAPE 1 REC jacks regardless of the setting of the input selector switches. This feature allows you to record the phono sound onto tape deck connected to TAPE 1 REC jacks while listening to other audio sound.

❾ Input selector switches and indicators

TAPE-1: To listen to a source from the tape deck connected to the TAPE 1 jacks, press this switch. The TAPE 1 indicator lights.

TUNER: To listen to a source from the tuner connected to the TUNER jacks, press this switch. The indicator above the switch lights.

CD: To listen to a source from the CD player connected to the CD jacks, press this switch. The indicator above the switch lights.

PHONO: To listen to a source from the turntable connected to the PHONO jacks, press this switch. The indicator above the switch lights.

AUX/VIDEO: To listen to a source from the equipment connected to the AUX/VIDEO jacks, press this switch. The AUX/VIDEO indicator lights.

VIDEO: To listen to an audio source from video cassette recorder connected to the VIDEO jacks, press this switch. The VIDEO indicator lights.

Note:
The setting of the input selector switch is backed up for a few days even when the POWER switch is set to OFF.
After this period, the TUNER is automatically selected when the power is supplied.

❿ BALANCE control

This control permits balancing of left and right channels when an imbalance exists from the sound source, or to correct acoustic imbalance due to room conditions.

⓫ VOLUME CONTROL

This control adjusts left- and right-channel volume simultaneously. Set it for the desired listening level.

Operating instructions

To listen to program source

1. Press the POWER switch.
2. Select the program source to be played with the input selector switches or TAPE-2 selector switch.
   When the SYSETM CONTROL connector on the rear panel is connected as shown in the figure on page 9, pressing the input selector switch sets the specified unit to play mode.
3. Play the program source.
4. Adjust the volume level with the VOLUME CONTROL.
5. To equalize the listening sound, press the EQUALIZER switch and adjust the GRAPHIC EQUALIZER controls.

Note:
When the TAPE-2 selector switch is set to ON, the program source selected with input selector switch cannot be heard from the speakers. To listen to the program source other than tape deck 2, be sure to set the TAPE-2 selector switch to OFF.

To record program source (TUNER, CD, PHONO, AUX/VIDEO, VIDEO)

1. Press the POWER switch.
2. Select the program source to be recorded with the input selector switch (TUNER, CD, PHONO, AUX/VIDEO, VIDEO).
   When the SYSTEM CONTROL connector on the rear panel is connected as shown in the figure on page 9, pressing the input selector switch sets the specified unit to play mode.
3. Play the program source.
4. Set tape deck 1 and/or tape deck 2 to record mode.
5. To equalize the recording sound, press the EQ REC switch and adjust the GRAPHIC EQUALIZER controls.
6. To equalize the listening sound, press the EQUALIZER switch.

To record phono sound while listening to other program source

1. Press the POWER switch.
2. Press the PHONO REC switch.
3. Play the record.
4. Set tape deck 1 to record mode.
5. Select the program source to be listened to with the input selector switch or TAPE-2 selector switch.
6. To equalize the listening sound, press the EQUALIZER switch and adjust the GRAPHIC EQUALIZER controls.

Note:
With the PHONO REC switch set to ON, the recording sound cannot be equalized even when the EQ REC switch is set to ON.

Tape-to-tape dubbing

- **Dubbing from tape deck 1 to tape deck 2**

1. Press the POWER switch.
2. Press the TAPE-1 input selector switch.
3. Set tape deck 1 to play and tape deck 2 to record.
4. To equalize the listening sound, press the EQUALIZER switch and adjust the GRAPHIC EQUALIZER controls.

Notes:
1. When TAPE-2 selector switch is pressed, the signal fed to tape deck 2 can be heard.
2. The recording sound cannot be equalized even when the EQ REC switch is pressed.

- **Dubbing from tape deck 2 to tape deck 1**

1. Press the POWER switch.
2. Press TAPE-2 selector switch and the input selector switch other than TAPE-1.
3. Set tape deck 2 to play and tape deck 1 to record.
4. To equalize the recording sound, press the EQ REC switch and adjust the GRAPHIC EQUALZIER controls.

Notes:
1. Do not press TAPE-1 input selector switch during dubbing.
2. To listen to the equalized recording sound, press the EQUALIZER switch.

System control connections

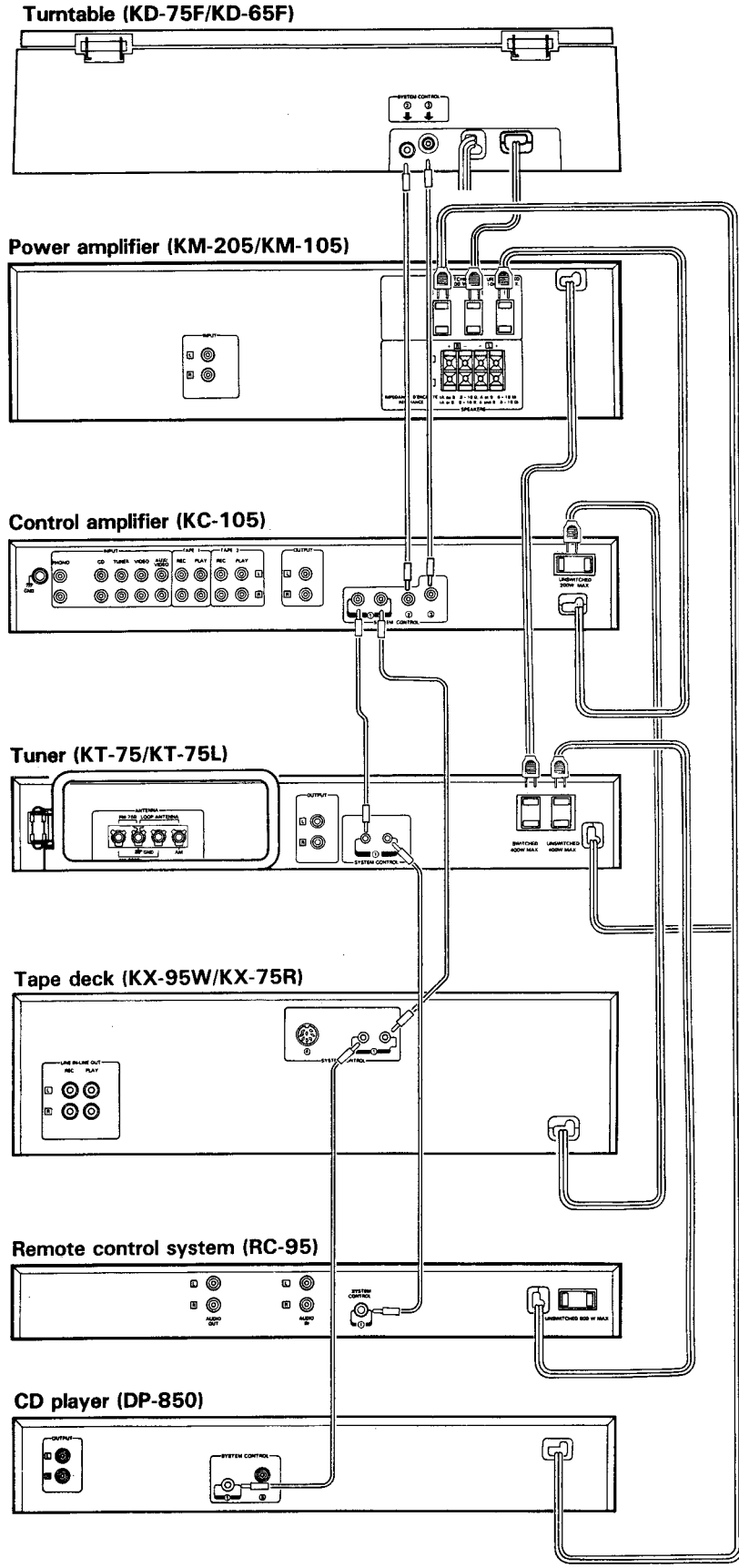
With the SYSETM CONTROL terminals connected as shown in the right figure, the input mode of the KC-105 can be changed by merely pressing the operation key of the connected equipment or the source equipment can be set to play mode by pressing the input selector switch of the KC-105.

• Objecteive models

- Tuner.....KT-75, KT-75L
- Cassette deck KX-95W, KX-75R
- Turntable.....KD-75F, KD-65F
- CD player.....DP-850

• Operation keys

Models	Operation keys	Remarks
KT-75 KT-75L	AM/FM selector Tuning key Preset station keys	
KX-95W	Play keys of A and B decks Index scan key of A deck	When the beginning of the selection is searched, the input mode of the KC-105 is changed.
KX-75R	Play keys Index scan key	When the beginning of the selection is searched, the input mode of the KC-105 is changed.
KD-75F KD-65F	Play key Recording key	With the PHONO REC switch of the KC-105 set to ON, synchro recording is possible.
DP-850	Play key	



Notes:

1. For connections of the audio cords, refer to the "System connections" diagram.
2. In some models except KT-75/KT-75L, the AC outlet is not provided. Obtain an extension cord to connect the power cords to the KT-75/KT-75L.
3. In some area, the remote controller RC-95 is not available.

In case of difficulty

If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your KENWOOD dealer or service representative.

AM, FM, PHONO, CD, VIDEO or Tape playback	CAUSE	REMEDY
Power on but no sound.	a) Power cord not plugged in. b) Poor connection at AC outlet. Power outlet inactive. c) VOLUME CONTROL set fully counterclockwise.	a) Check plug contact. b) Check outlet using a lamp or other appliance (outlet may be controlled by a wall switch). c) Set the control to your preference.
No sound from left and right.	a) Speaker cords disconnected. b) No input selector switch is in use.	a) Check speaker connections. b) Push one of the input selector switches to select the desired program.
Sound from left or right, but not both.	a) Poor speaker connections. b) Defective speaker. c) BALANCE set to one extreme or the other.	a) Check connections at both ends of speaker cord. b) Reverse speakers. If problem stays with the same speaker, check the speaker. c) Check setting of BALANCE control.
PHONO playback only	**CAUSE**	**REMEDY**
No sound from both or one speaker.	Turntable output disconnected.	Check phono cables.
Loud hum drowns out sound.	Poor ground connection at phono cable connections.	Check phono plugs, particularly outershell connections.
Low background hum.	Hum picked up in turntable or turntable cables.	Keep cables away from power cords. Twist left and right cables together. Reverse AC plug of turntable. Connect ground wire between turntable and GND terminal.
Background buzz.	TV signal picked up by phono cable (especially near transmitter).	Route phono cables to minimize buzz.
Howling noise at maximum volume settings.	Acoustic pickup from speaker.	Increase distance between speaker and turntable. Choose speaker locations carefully. Check turntable suspension.

Specifications

PERFORMANCE

Input Sensitivity/Impedance/Signal-to-Noise Ratio (IHF A Curve)

PHONO ..... 2.5 mV/47 kohms/80 dB, 86 dB (5.0 mV)

TUNER/AUX/VIDEO/TAPE PLAY/ CD/VIDEO ..... 150 mV/33 kohms/100 dB

Maximum Input Voltage for Phono ..... 95 mV (RMS), T.H.D. 0.03% at 1,000 Hz

Frequency Response

PHONO ..... RIAA Standard Curve ±0.3 dB (20 Hz - 20 kHz)

AUX → Out ..... 5 Hz - 200 kHz (−3 dB)

Subsonic Filter ..... 60 Hz, 6 dB/Octave

Total Harmonic Distortion

AUX → Out

20 Hz ~ 20 kHz ..... 0.003% at 1 V Output

Output Voltage & Impedance ..... TAPE REC: 150 mV/330 ohms

Loudness Control ..... +8 dB (100 Hz) (at volume −30 dB)

GENERAL

Power Requirement ..... 60 Hz 120 V (U.S.A. & Canada Model)
Model sold elsewhere incorporates switch to accommodate 50/60 Hz 110 ~ 120 V/220 ~ 240 V

Power Consumption 6W

AC Outlet ..... 1 Unswitched (Except for some areas.)

Dimensions ..... W 420 mm (16-9/16″)
H 74 mm (2-15/16″)
D 272 mm (10-11/16″)

Weight (Net) ..... 3.1 kg (6.8 lb)

(Gross) ..... 3.7 kg (8.1 lb)

Note:
KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD